**chastain
skillman**
incorporated

Reply to: Lakeland

October 28, 1985

Mr. Mike Gilley
Polk County Health Department
P. O. Box 1480
Winter Haven, Florida 33880

Re: Construction Techniques for Radiation Control
     Townhouse/Office Complex – Oakbridge Subdivision
     CSI Project No. 1835.19

Dear Mike:

Per our conversation of this date, please find enclosed a copy of the
radiation map of the Drummond site. I have indicated the areas where
the proposed construction is to occur. D S. Saxena of Alamo/Saxena,
Inc. is to give you a call to discuss the foundation techniques proposed
to attenuate any adverse radiation impacts. Basically, we will
standardize on post-tensioned slab construction. The only exceptions
would be in areas that the soil mechanics dictate the use of monolithic
slab (with or without piles depending on structure loading). Both
techniques are effective in controlling indoor radiation impacts.

In order to meet the construction schedule requested by the Owner, we
need to have a letter from your office stating that these construction
techniques are acceptable. I am attaching a copy of the City's request
for your review. As mentioned, we must respond to the City by October
31, 1985 in order to be placed on the November agenda. I know that this
is short notice, but I was under the impression that the Department had
a more or less standard response to this issue. We intend to comply
rigidly with specified construction techniques because the radiation
problem is, in many cases, such an emotional issue.

I appreciate your help and if you could help us meet our deadline we
will set up a phasing schedule so that you will know when we will need
these option letters and can plan accordingly. Please don't hesitate
to call if I can be of assistance.

Sincerely,

James R. Chastain, Jr., P.E.
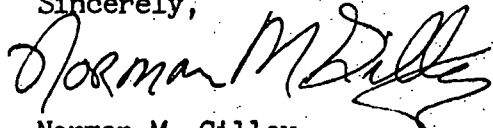
JRCjr:cp

Enclosure

cc: Mr. Randy Chastain

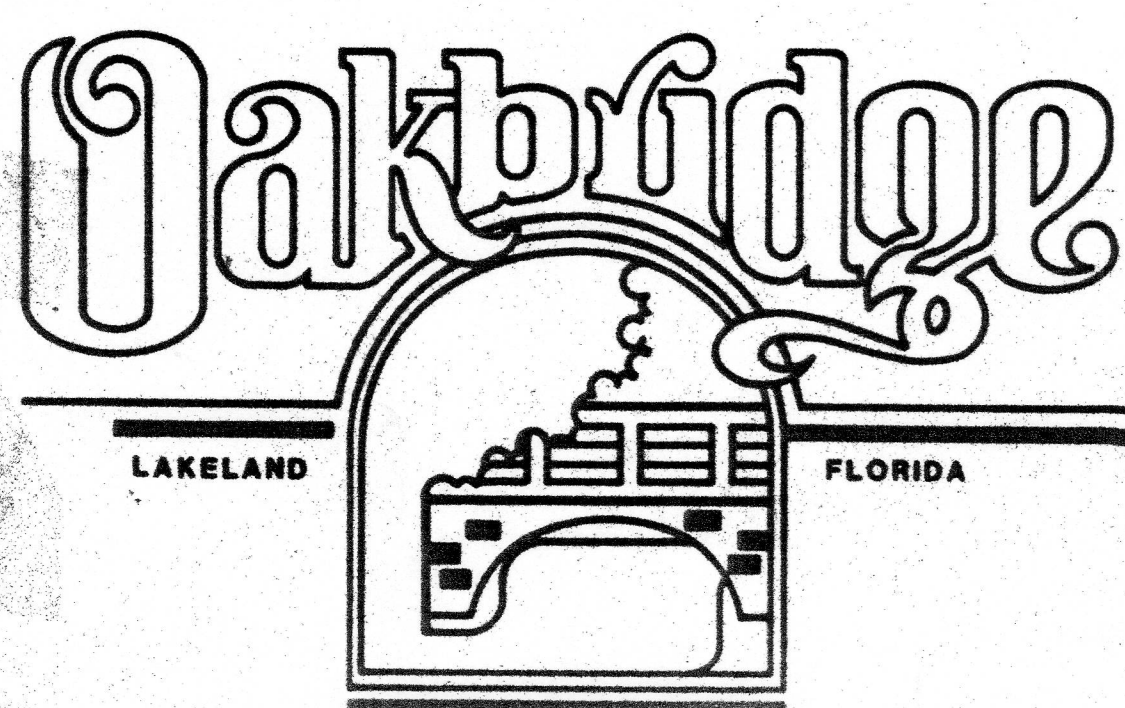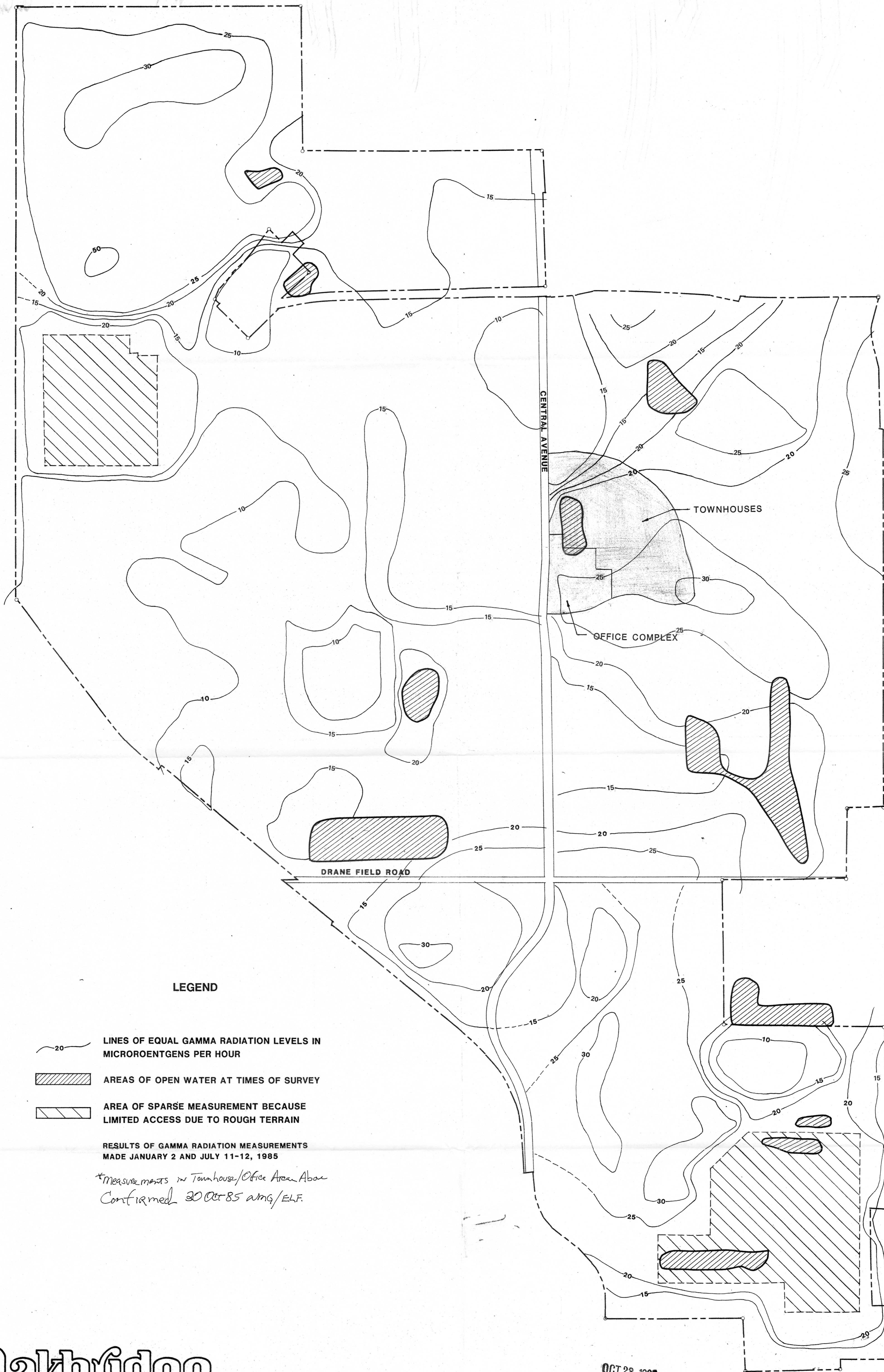10517241

James R. Chastain, Jr.
October 30, 1985
Page 2

Thank you for your interest in Radiological Health.   Please contact
this office, if we may be of any assistance.

Sincerely,

Norman M. Gilley
Public Health Physicist Supervisor

ENC

CENTRAL AVENUE

TOWNHOUSES

OFFICE COMPLEX

DRANE FIELD ROAD

LEGEND

———20——— LINES OF EQUAL GAMMA RADIATION LEVELS IN MICROROENTGENS PER HOUR

[hatched] AREAS OF OPEN WATER AT TIMES OF SURVEY

[hatched] AREA OF SPARSE MEASUREMENT BECAUSE LIMITED ACCESS DUE TO ROUGH TERRAIN

RESULTS OF GAMMA RADIATION MEASUREMENTS MADE JANUARY 2 AND JULY 11-12, 1985

*Measurements in Townhouse/Office Area Above
Confirmed 20 Oct 85 w/MG/E.L.F.

OCT 28 1985

Oakbridge
LAKELAND   FLORIDA

engineers · surveyors
chastain skillman incorporated

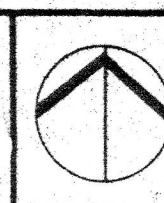GLATTING LOPEZ KERCHER ANGLIN
PLANNERS & LANDSCAPE ARCHITECTS

tai TIPTON ASSOCIATES INCORPORATED
ORLANDO

Water and Air Research, Inc.
CONSULTING ENVIRONMENTAL ENGINEERS & SCIENTISTS

0   200   400   800
OCTOBER 1985

RADIATION MAP

MAP K

26-3